

# **Addendum to the Noise Study Report and Noise Abatement Decision Report (October 2015)**

## **Centennial Corridor Project**

Project ID: 0600000484  
SCH ID: 2008091102

### **PURPOSE OF THE TECHNICAL MEMORANDUM**

This Addendum to the Noise Study Report and Noise Abatement Decision Report was prepared after circulation of the Draft Environmental Impact Report/Environmental Impact Statement (DEIR/EIS) for the Centennial Corridor Project (May 2014) to address changes in, or pertaining to, any of the following: comments received; design refinements; regulatory setting; affected environment; environmental consequences; or avoidance, minimization, and mitigation measures.

### **CHANGE IN PROJECT DESIGN**

Many public comments on the DEIR/EIS requested that design modifications be incorporated into the proposed project. The following refinements provide benefits or otherwise improve the project, and they do not result in additional or new impacts not previously described and analyzed in the DEIR/EIS.

#### **Kaiser Realignment**

During the public circulation period of the draft environmental document, Caltrans and the city of Bakersfield received a letter on behalf of Kaiser Foundation Health Plan, Inc. (Kaiser), dated July 7, 2014, describing various concerns in regard to the proposed Centennial Corridor Project. Due to these concerns, preliminary design plans for Alternative B were modified to avoid direct impacts to the Kaiser Health Care Center. The preliminary design revisions that would avoid impacts on the Kaiser medical offices are depicted in Attachment 1 of this Addendum. These revisions would significantly increase the distances between the Kaiser facility and the project improvements, creating an 80-foot buffer between the medical facility's parking lot and the proposed alignment. No obstructions associated with the Centennial Corridor Project will block Kaiser Health Care Center driveways, and no modifications would be made to change the configuration of the existing driveways. In addition, the modified design will not require property or temporary construction easements on Kaiser's property.

Additionally, as a response to Kaiser's comments on the draft environmental document, additional noise mitigation measures may be incorporated by Caltrans and the construction

contractor if they are deemed practicable and reasonable. These additional construction abatement measures include the use of temporary noise barriers, outdoor sound curtains or sound curtain noise barriers. These measures typically reduce equipment noise levels from 15 to 22 dBA.

### **Carrier Canal Crossing**

To address concerns regarding bicycle and pedestrian connectivity, preliminary design plans for Alternative B were revised to include a multi-use pathway that will run parallel to the project alignment connecting bicyclists and pedestrians from California Avenue to Commerce Drive. The decision to incorporate a multi-use pathway to accommodate a bicycle and pedestrian connection was made in response to public comments requesting a bicycle connection spanning over the Carrier Canal. As part of this change, an approximately 100-foot-long-bridge over the Carrier Canal would be constructed to accommodate bicycles and pedestrians. The bridge would be of sufficient width to accommodate two-way pedestrian and bicycle traffic. The preliminary design layout for the Carrier Canal Crossing is included in Attachment 2 of this Addendum. The proposed modification is located within the study area analyzed in the draft environmental document and supporting technical studies. This multi-use pathway and bridge structure will provide direct connectivity to the Kern River Parkway Bike Trail for its users.

### **Pacific Gas and Electric Towers**

The Preferred Alternative B alignment originally proposed to relocate six Pacific Gas and Electric transmission towers within the general area of Truxtun Avenue/Westside Parkway; however, after the circulation of the draft environmental document, the relocation of these towers was identified as a project activity in the previously approved *Final Westside Parkway Environmental Assessment/Environmental Impact Report* (2007) to accommodate the construction of the Westside Parkway Project. The relocation of the Pacific Gas and Electric transmission towers were not relocated to their ultimate location as stated in the city of Bakersfield's General Plan. These tower relocations would be coordinated with Pacific Gas and Electric in compliance with applicable Public Utilities Commission regulations.

### **Air Quality**

To address localized increases in particulate matter along the Preferred Alternative B alignment, Caltrans has entered into a Voluntary Emission Reduction Agreement with the San Joaquin Valley Air Pollution Control District to provide betterments to local air quality within the project area. This agreement would provide additional localized particulate matter reductions. See

Appendix L of the final environmental document for more details on the Voluntary Emission Reduction Agreement.

The San Joaquin Valley Air Pollution Control District's Voluntary Emissions Reduction Program is a grant/incentive program. The \$1.5 million dollars provided by Caltrans to the San Joaquin Valley Air Pollution Control District to fund this Voluntary Emission Reduction Agreement will be used to award funds to businesses, residents, and municipalities to generate real and quantifiable reductions in emissions for the Bakersfield area and the Central Valley. Participation by Bakersfield residents is voluntary and is available to residents living within a certain distance of the project alignment. The following are some examples of how these funds may be utilized to reduce air pollution:

- Grants to residents to purchase cleaner vehicles through the San Joaquin Valley Air Pollution Control District's Drive Clean Rebate Program.
- Grants to residents through the San Joaquin Valley Air Pollution Control District's Tune-In Tune-Up program to repair older high-polluting vehicles.
- Grants to residents to replace fireplaces and noncertified wood-burning stoves with clean-burning U.S. Environmental Protection Agency-certified units through the District's Burn Cleaner Incentive Program.
- Grants to convert electricity or replace existing diesel-powered off-road equipment through the San Joaquin Valley Air Pollution Control District's Heavy-Duty Engine Program.
- Grants to replace old trucks with new low-emissions trucks through the San Joaquin Valley Air Pollution Control District's Truck Voucher Program.
- Grants to replace older and high-polluting school buses through the San Joaquin Valley Air Pollution Control District's School Bus Replacement Program. This would be provided for buses that operate within the Preferred Alternative B alignment.
- Grants to upgrade heating, ventilation, air conditioning (HVAC) systems to qualifying daycare centers, preschools, and schools, to provide improvements to reduce indoor air particles related to negative health effects such as exacerbating the symptoms of asthma.

The emissions reductions secured through Voluntary Emission Reduction Agreements are supplementary to existing regulations, achieving reductions earlier or beyond those required by regulations. Over the years, the San Joaquin Valley Air Pollution Control District has built

a reputation for excellence in the implementation of these programs, as highlighted in multiple audits by state agencies that lauded the San Joaquin Valley Air Pollution Control District's incentive programs for their efficiency and effectiveness. Historically, the San Joaquin Valley Air Pollution Control District's incentive programs have invested over \$1 billion in public and private funding for clean air projects by reducing more than 100,000 tons of emissions. With the programs listed above offered to residents near the project alignment, reduction in construction emissions within the project area would be reduced by the following in three years:

- Year 1 – 1.9 tons of reactive organic gas/33.6 tons of nitrogen oxide/7.6 tons of coarse particulate matter (PM<sub>10</sub>)
- Year 2 – 1.45 tons of reactive organic gas/16.5 tons of nitrogen oxide/7.3 tons of coarse particulate matter (PM<sub>10</sub>)
- Year 3 – 0.4 ton of reactive organic gas/2.55 tons of nitrogen oxide/0.7 tons of coarse particulate matter (PM<sub>10</sub>)

It should be noted that the reductions mentioned above would be implemented mainly within the Year 1 timeframe, and the reductions will carry over to future years, well beyond the construction years.

With implementation of the Voluntary Emission Reduction Agreement programs listed above, the project area will experience operational emission reductions of:

- 5 tons of reactive organic gas
- 73 tons of nitrogen oxide
- 5 tons of coarse particulate matter (PM<sub>10</sub>)

These emission reductions will be achieved throughout the 20-year design life of the project.

In addition to the Voluntary Emission Reduction Agreement, the Centennial Corridor Project would provide a one-time \$200,000 grant to a non-profit organization to plant trees along the Preferred Alternative B alignment. This organization may plant trees at the resident's property. Initially, trees will be offered to environmental justice communities living within 1,000 feet of either side of the new freeway (first priority), and secondly, properties within 500 feet of each side of the Alternative B alignment. If trees are available after the primary and secondary targeted areas, trees would be offered to property owners within 1,500 feet of each side of the

alignment. If trees are still available, they may be planted at other locations in consultation with and approved by the city of Bakersfield. Planting and maintenance of the trees would be the responsibility of those accepting the trees.

The Voluntary Emission Reduction Agreement is provided in Appendix L of the final environmental document.

### **Joseph Drive Pedestrian Sidewalk**

Implementation of the Centennial Corridor Project will result in the permanent closure of 11 local streets, which in some cases greatly lengthens the routes for current pedestrian routes in the Westpark neighborhood. The city will coordinate with Caltrans to install a dedicated new pedestrian sidewalk for the benefit of residents living in homes south of La Mirada Drive and Joseph Drive. The pedestrian sidewalk would enhance connectivity to newly divided areas in the Westpark neighborhood and shorten the route for pedestrians to access popular community facilities located on either side of the freeway, including Centennial Park, Harris Elementary school, and other neighborhood destinations. This proposed feature would upgrade bicyclist and pedestrian access via La Mirada Drive. The preliminary design layout for the Joseph Drive pedestrian crosswalk is included in Attachment 3 of this Addendum.

### **CHANGE IN REGULATORY SETTING**

No changes to environmental regulations related to noise or noise abatement have occurred since circulation of the DEIR/EIS in May 2014. The Caltrans' 2011 *Traffic Noise Analysis Protocol for New Highway Construction and Reconstruction Projects* (Protocol) was used for the traffic noise impact analysis.

### **CHANGE IN AFFECTED ENVIRONMENT**

No changes to the environmental setting related to noise or noise abatement occurred as a result of the proposed changes to the project.

### **CHANGE IN ENVIRONMENTAL CONSEQUENCES**

No changes in traffic noise impacts will occur as a result of the design modifications because there are no nearby frequent outdoor use areas. The analysis conducted; findings and conclusions; and abatement measures included in the Noise Study Report and Noise Abatement Decision Report are still valid with inclusion of the project design modifications.

### **CHANGE TO AVOIDANCE, MINIMIZATION, AND MITIGATION MEASURES**

There will be no changes to avoidance, minimization, or mitigation measures pertaining to noise since circulation of the May 2014 DEIR/EIS.

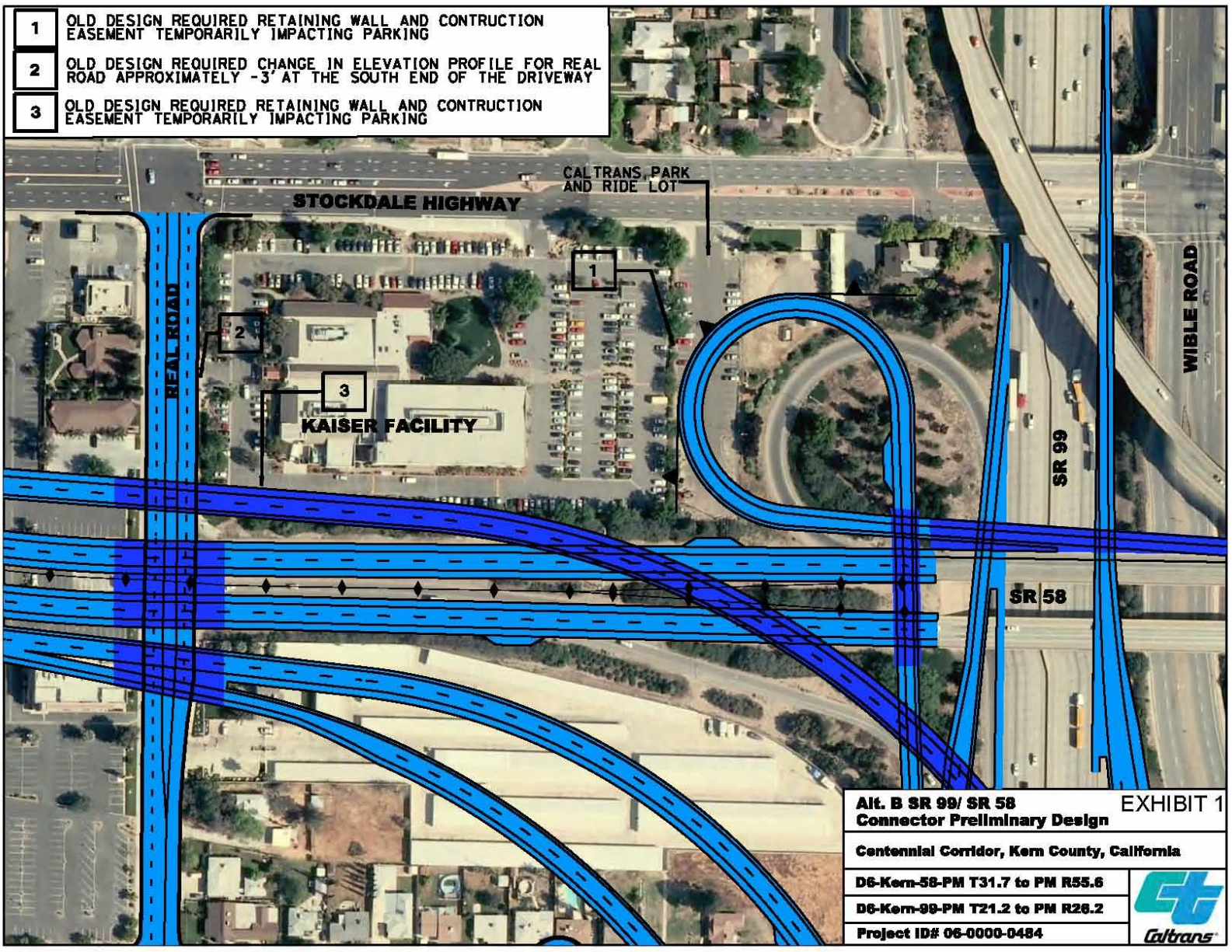
If conditions have substantially changed during final design, noise abatement measures identified in the environmental document may need to be modified or eliminated as necessary. The final decision of the noise abatement will be made during the project design.

### **PREPARER/REVIEWER**

Areg Gharabegian, P.E., Lead Noise Engineer, M.S. Mechanical Engineering, 35 years of experience, Preparer/Reviewer.

# Attachment 1

## Kaiser Realignment



- 1 OLD DESIGN REQUIRED RETAINING WALL AND CONSTRUCTION EASEMENT TEMPORARILY IMPACTING PARKING
- 2 OLD DESIGN REQUIRED CHANGE IN ELEVATION PROFILE FOR REAL ROAD APPROXIMATELY -3' AT THE SOUTH END OF THE DRIVEWAY
- 3 OLD DESIGN REQUIRED RETAINING WALL AND CONSTRUCTION EASEMENT TEMPORARILY IMPACTING PARKING

Alt. B SR 99/ SR 58  
Connector Preliminary Design


EXHIBIT 1

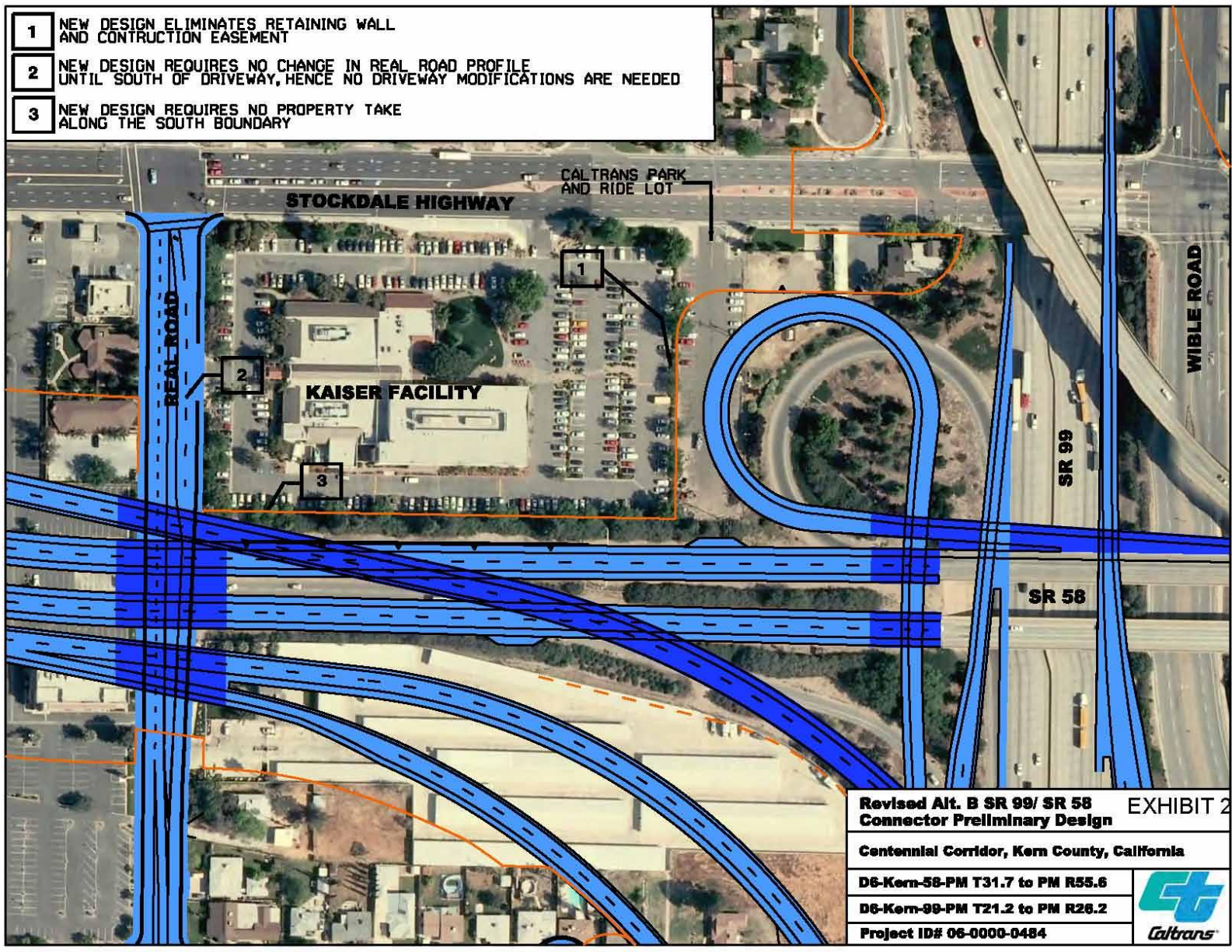
Centennial Corridor, Kern County, California

D6-Kern-58-PM T31.7 to PM R55.6

D6-Kern-99-PM T21.2 to PM R26.2

Project ID# 06-0000-0484





## Attachment 2

# Carrier Canal Crossing Design Modification

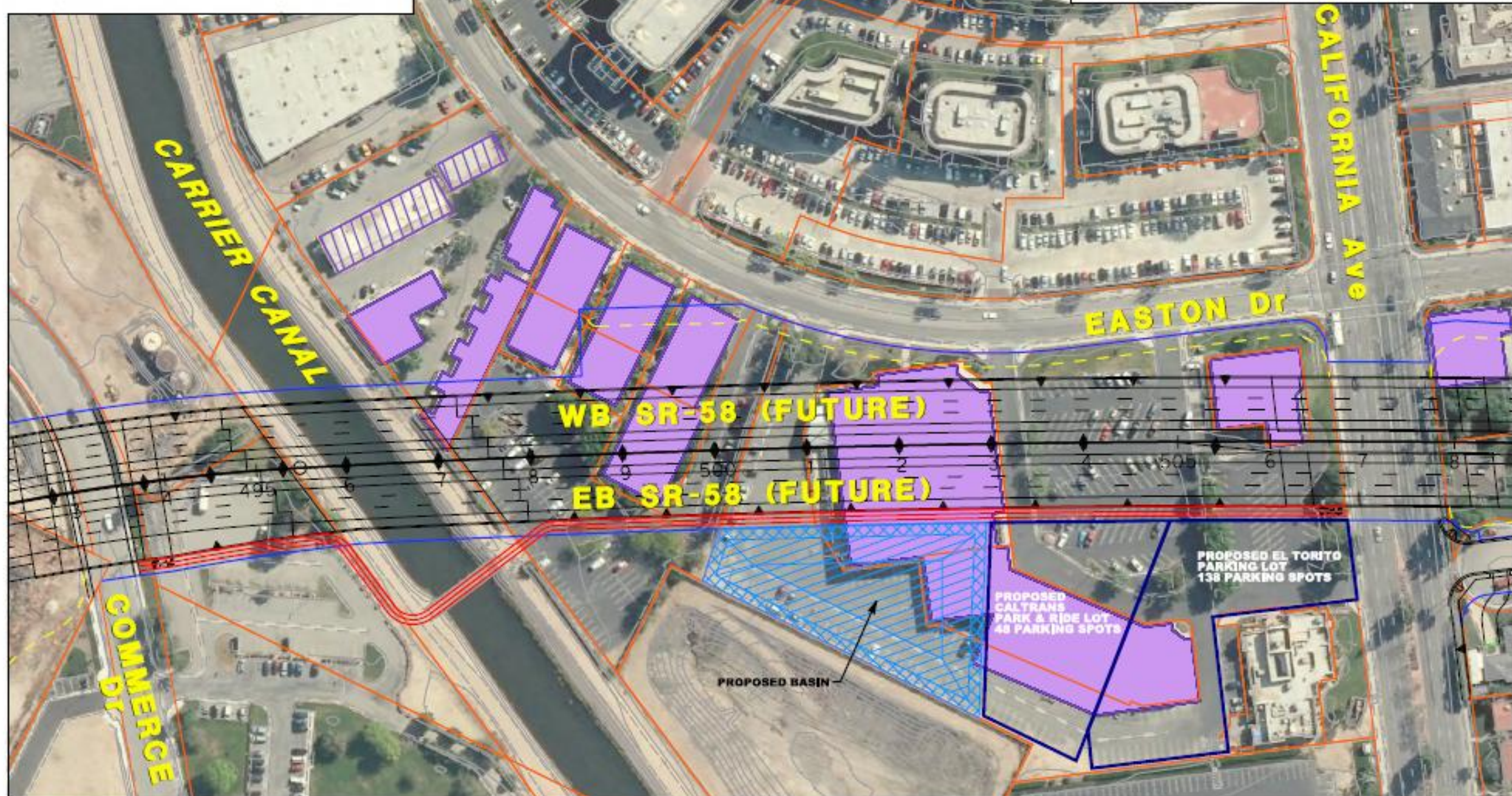
- LEGEND**
- EXISTING RIGHT OF WAY
  - CENTENNIAL RIGHT OF WAY
  - PROPOSED ROADWAY
  - PROPOSED BIKE PATH
  - RETAINING WALL
  - PROPOSED BUILDING IMPACTS
  - PROPOSED PARTIAL BUILDING IMPACTS

**PARSONS**

**CENTENNIAL CORRIDOR**

**EASTON DR**

APRIL 10, 2015  
SCALE 1" = 100'



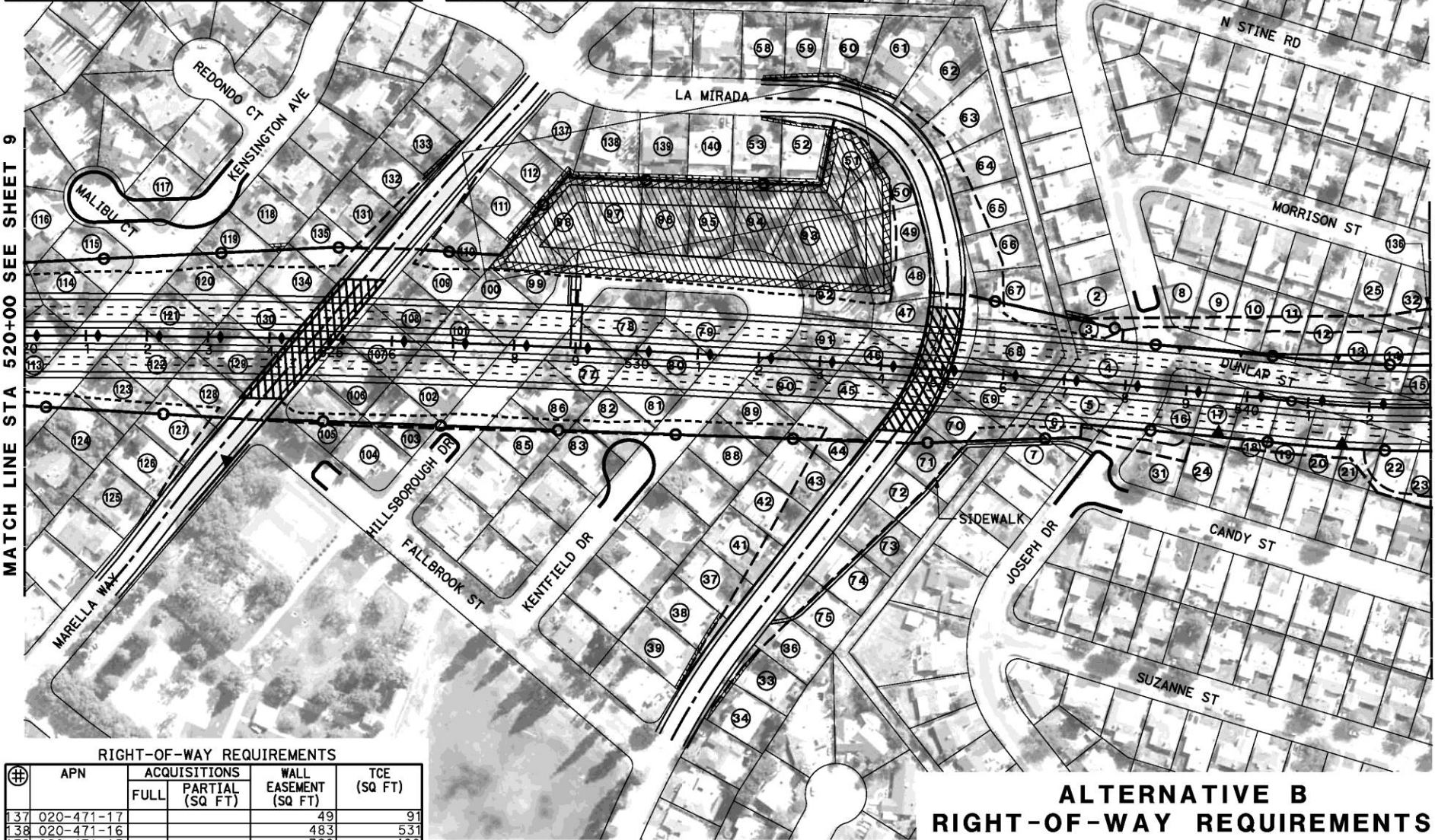
Attachment 3  
Joseph Drive Pedestrian Crossing

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
Caltrans

RIGHT-OF-WAY REQUIREMENTS				
#	APN	ACQUISITIONS		TCE (SQ FT)
		FULL	PARTIAL (SQ FT)	
1	NOT USED			
2	020-261-02		35	162
3	020-261-03	X		
4	020-261-04	X		
5	020-261-05	X		
6	020-261-06	X		
7	020-261-07	X		
8	020-262-01		78	
9	020-262-02	X		
10	020-262-03	X		
11	020-262-04	X		
12	020-262-05	X		
13	020-262-06	X		
14	020-262-07	X		
15	020-262-08	X		
16	020-265-01	X		
17	020-265-02	X		
18	020-265-03	X		
19	020-265-04	X		
20	020-265-05	X		
21	020-265-06	X		
22	020-265-07	X		
23	020-265-08	X		
24	020-265-21	X		
25	020-295-01		322	
26	NOT USED			
27	NOT USED			
28	NOT USED			
29	NOT USED			
30	NOT USED			
31	020-265-22	X		
32	020-295-02	X		
33	020-351-52		551	354
34	020-351-53		347	314
35	NOT USED			
36	020-351-55	X		
37	020-352-01	X		
38	020-352-02		590	354
39	020-352-03		198	356
40	NOT USED			
41	020-471-01	X		
42	020-471-02	X		
43	020-471-03	X		
44	020-471-04	X		
45	020-471-05	X		
46	020-471-06	X		
47	020-471-07	X		
48	020-471-08	X		
49	020-471-09	X		
50	020-471-10	X		
51	020-471-11	X		
52	020-471-12		919	1136
53	020-471-13		167	477
54	NOT USED			
55	NOT USED			
56	NOT USED			
57	NOT USED			
58	020-474-04		74	171
59	020-474-05		325	283
60	020-474-06		785	366
61	020-474-07		1109	327
62	020-474-08	X		
63	020-474-09	X		
64	020-474-10	X		
65	020-474-11	X		
66	020-474-12	X		
67	020-474-13	X		
68	020-474-14	X		
69	020-474-15	X		
70	020-474-16	X		
71	020-474-17	X		
72	020-474-18	X		
73	020-474-19	X		
74	020-474-23	X		
75	020-474-24	X		
76	NOT USED	X		
77	020-481-05	X		
78	020-481-06	X		
79	020-481-07	X		
80	020-481-08	X		
81	020-481-09	X		
82	020-481-10	X		
83	020-481-11	X		
84	NOT USED			
85	020-481-15	X		
86	020-481-16	X		
87	NOT USED			
88	020-482-06	X		

RIGHT-OF-WAY REQUIREMENTS				
#	APN	ACQUISITIONS		TCE (SQ FT)
		FULL	PARTIAL (SQ FT)	
89	020-482-07	X		
90	020-482-08	X		
91	020-482-09	X		
92	020-482-10	X		
93	020-482-11	X		
94	020-482-12	X		
95	020-482-13	X		
96	020-482-14	X		
97	020-482-15	X		
98	020-482-16	X		
99	020-482-17	X		
100	020-482-18	X		
101	020-482-19	X		
102	020-482-20	X		
103	020-482-21	X		
104	020-482-22	X		
105	020-482-23	X		
106	020-482-24	X		
107	020-482-25	X		
108	020-482-26	X		
109	020-482-27	X		
110	020-482-28	X		
111	020-482-29			393
112	020-482-30			333
				366
				370

RIGHT-OF-WAY REQUIREMENTS				
#	APN	ACQUISITIONS		TCE (SQ FT)
		FULL	PARTIAL (SQ FT)	
113	020-522-02	X		
114	020-522-03	X		
115	020-522-04	X		
116	020-522-05		747	
117	020-522-09	X		
118	020-524-06		32	87
119	020-524-07	X		69
120	020-524-08	X		
121	020-524-09	X		
122	020-524-10	X		
123	020-524-11	X		
124	020-524-12	X		
125	020-524-16		57	488
126	020-524-17	X		
127	020-524-18	X		
128	020-524-19	X		
129	020-524-20	X		
130	020-524-21	X		
131	020-524-24	X		
132	020-524-25	X		
133	020-524-26	X		
134	020-524-28	X		
135	020-524-29	X		
136	020-295-03	X		



RIGHT-OF-WAY REQUIREMENTS				
#	APN	ACQUISITIONS		TCE (SQ FT)
		FULL	PARTIAL (SQ FT)	
137	020-471-17			49
138	020-471-16			483
139	020-471-15			360
140	020-471-14			324
				91
				531
				400
				360

DIST	COUNTY	ROUTE	POST MILES	SHEET	TOTAL
06	Ker	58	T31.7/R55.6	10	SHEETS
			21.2/26.2		
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE			No.		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.			CIVIL		
PARSONS 110 WEST A STREET, SUITE 1050 SAN DIEGO, CALIFORNIA 92101			THOMAS ROAD IMPROVEMENT PROGRAM 900 TRUXTON AVENUE, SUITE 200 BAKERSFIELD, CALIFORNIA 93301		

DRAFT

ALTERNATIVE B  
RIGHT-OF-WAY REQUIREMENTS  
SCALE: 1" = 200'